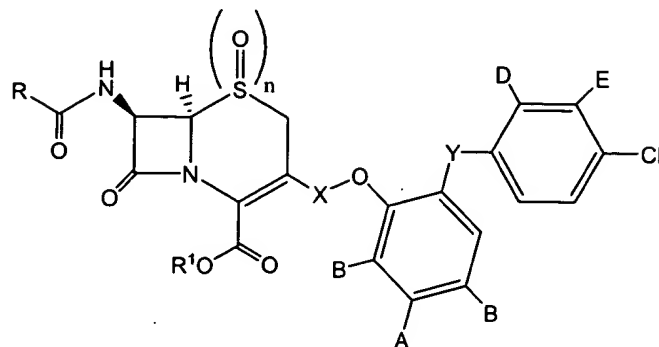


ABSTRACT

The present invention relates to chemical compounds having the general structure:



wherein R , R^1 , X , Y , A , B , D , and E are defined herein, The compounds are improved β -lactam antibiotics